

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 04/16/02

Date Received: 04/04/02

Project: Metro Self Monitor, PO# M67821

Date Extracted: 04/11/02

Date Analyzed: 04/11/02

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M67821 204021-01	0.12	0.13	0.08	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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Date of Report: 04/16/02

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Project: Metro Self Monitor, PO# M67821

**QUALITY ASSURANCE RESULTS  
FROM TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 204021-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.12	0.12	0	0-20
Copper	mg/L (ppm)	0.13	0.13	0	0-20
Nickel	mg/L (ppm)	0.08	0.08	0	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 204021-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	0.12	91	93	80-120	2
Copper	mg/L (ppm)	2	0.13	103	101	80-120	2
Nickel	mg/L (ppm)	4	0.08	89	94	80-120	5
Zinc	mg/L (ppm)	2	<0.05	103	111	80-120	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	105	103	80-120	2
Copper	mg/L (ppm)	2	109	104	80-120	5
Nickel	mg/L (ppm)	4	103	101	80-120	2
Zinc	mg/L (ppm)	2	108	106	80-120	2

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

**April 16, 2002**

**DUPLICATE COPY**

**INVOICE # 02ACU0416-1**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M67821 - Results of testing requested by  
Gerry Thompson for material submitted on April 4, 2002.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	<u>\$ 80.00</u>
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Amount Due .....	\$ 80.00
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FEDERAL TAX ID # (b) (6)

204021

## SAMPLE CHAIN OF CUSTODY

ME 4.4.02 AT 3.

Send Report To

Gerald A. Thompson

Company

ALASKAN COPPER WORKS

Address

628 S. HANCOCK ST

City, State, ZIP

SEATTLE WA 98134

Phone #

206-382-8379

Fax #

206-382-4509

SAMPLER'S (Signature)

PROJECT NAME/NO.

PO #

METRO SECS MONITOR

M67821

REMARKS

Page # of

## TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

## SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions


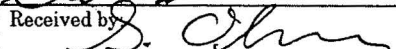
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	CH, Cu, Ni, Zn				
M67821	01	4/4/02	12:30	H2O	1							✓				

Friedman & Bruya, Inc.  
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Gerald A. Thompson	ACW	4/4/02	1:07pm
Received by: 	S. O'Brien	F&B, Inc.	L	1:15A
Relinquished by:				
Received by:				



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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April 16, 2002

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

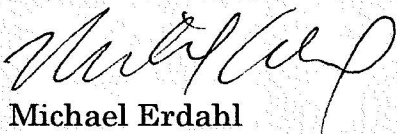
Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 4, 2002 from your Metro Self Monitor, PO# M67821 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
ACU0416R.DOC